IN THE CLAIMS:

A complete listing of the claims is set forth below:

1 - 46 (Canceled)

- (Previously Presented) A computer graphical user interface system comprising one or more memory units, the system comprising:
- a database operable to store hierarchically organized data associated with a multidimensional hierarchy of data; and
- a multi-dimensional graphical user interface coupled to the database and capable of user interaction to provide a multi-dimensional user interactive graph comprising:
- a multi-dimensional axes data hierarchy including a top layer hierarchy associated with a first axis dimension, a top layer hierarchy associated with a second axis dimension, and a top layer hierarchy associated with a third axis dimension; and
- a unique bottom layer hierarchy including a plurality of function values associated with each of the top layer hierarchies of the multi-dimensional axes data hierarchy; and
- a multi-dimensional value hierarchy associated with each of the function values of the multi-dimensional axes data hierarchy.
- 48. (Previously Presented) The computer graphical user interface system according to Claim 47, wherein the multi-dimensional axes data hierarchy further comprises:
- a plurality of levels of hierarchies associated with the top layer hierarchy, and the unique bottom layer hierarchy associated with each of the plurality of levels of hierarchies.

49. (Canceled)

 (Previously Presented) The computer graphical user interface system according to Claim 48, wherein the user is capable of filtering at least a portion of the plurality of levels of hierarchies and in response the filtered levels of hierarchies disappear from the multidimensional user interactive graph and the multi-dimensional graphical user interface displays

the filtered levels of hierarchies in a separate filtered window.

51. (Previously Presented) The computer graphical user interface system according

to Claim 50, wherein the multi-dimensional graphical user interface allows for a user navigation

of the multi-dimensional axes data hierarchy by drilling into the top layer hierarchies associated

with each of the axis dimensions

52 (Previously Presented) The computer graphical user interface system according

to Claim 47, wherein the multi-dimensional graphical user interface allows for each of the

function values to be graphed over user selectable aggregations of user input data.

53 (Previously Presented) The computer graphical user interface system according

to Claim 52 wherein each of the function values are hierarchically arranged numbers and the user

is capable of filtering at least a portion of the multi-dimensional value hierarchies and in

response the filtered value hierarchies disappear from the multi-dimensional user interactive

graph and the multi-dimensional graphical user interface displays the filtered value hierarchies in

a separate filtered legend window.

54. (Previously Presented) The computer graphical user interface system according to Claim 53, wherein each of the function values of the multi-dimensional value hierarchy provide for user interaction of complex mathematical combinations of the multi-dimensional axes data hierarchy selected from the group consisting of: summation; average; minimum; and maximum.

55. (Previously Presented) Software for providing a computer graphical user interface, the software being embodied in a computer-readable storage medium and when executed operable to:

store hierarchically organized data associated with a multi-dimensional hierarchy of data in a database and display the multi-dimensional hierarchy of data to a user; and

provide a multi-dimensional graphical user interface coupled to the database and capable of user interaction to provide a multi-dimensional user interactive graph comprising:

a multi-dimensional axes data hierarchy including a top layer hierarchy associated with a first axis dimension, a top layer hierarchy associated with a second axis dimension, and a top layer hierarchy associated with a third axis dimension; and

a unique bottom layer hierarchy including a plurality of function values associated with each of the top layer hierarchies of the multi-dimensional axes data hierarchy; and

a multi-dimensional value hierarchy associated with each of the function values of the multi-dimensional axes data hierarchy.

56. (Previously Presented) The software of Claim 55, wherein the multi-dimensional axes data hierarchy further comprises:

a plurality of levels of hierarchies associated with the top layer hierarchy, and the unique bottom layer hierarchy associated with each of the plurality of levels of hierarchies.

(Canceled)

58. (Previously Presented) The software of Claim 56, wherein the user is capable of

filtering at least a portion of the plurality of levels of hierarchies and in response the filtered levels of hierarchies disappear from the multi-dimensional user interactive graph and the multi-

dimensional graphical user interface displays the filtered levels of hierarchies in a separate

filtered window.

59. (Previously Presented) The software of Claim 58, wherein the multi-dimensional

graphical user interface allows for a user navigation of the multi-dimensional axes data hierarchy

by drilling into the top layer hierarchies associated with each of the axis dimensions.

60. (Previously Presented) The software of Claim 55, wherein the multi-dimensional

graphical user interface allows for each of the function values to be graphed over user selectable

aggregations of user input data.

61. (Previously Presented) The software of Claim 60, wherein each of the function

values are hierarchically arranged numbers and the user is capable of filtering at least a portion of the multi-dimensional value hierarchies and in response the filtered value hierarchies

disappear from the multi-dimensional user interactive graph and the multi-dimensional graphical

user interface displays the filtered value hierarchies in a separate filtered legend window.

62. (Previously Presented) The software of Claim 61, wherein each of the function

values of the multi-dimensional value hierarchy provide for user interaction of complex

mathematical combinations of the multi-dimensional axes data hierarchy selected from the group

consisting of: summation; average; minimum; and maximum.

 (Previously Presented) A method for providing a computer graphical user interface, comprising the steps of:

storing hierarchically organized data associated with a multi-dimensional hierarchy of data in a database; and

providing a multi-dimensional graphical user interface coupled to the database and capable of user interaction to provide a multi-dimensional user interactive graph comprising:

a multi-dimensional axes data hierarchy including a top layer hierarchy associated with a first axis dimension, a top layer hierarchy associated with a second axis dimension, and a top layer hierarchy associated with a third axis dimension; and

a unique bottom layer hierarchy including a plurality of function values associated with each of the top layer hierarchies of the multi-dimensional axes data hierarchy; and

a multi-dimensional value hierarchy associated with each of the function values of the multi-dimensional axes data hierarchy.

64. (Previously Presented) The method of Claim 63, wherein the multi-dimensional axes data hierarchy further comprises:

a plurality of levels of hierarchies associated with the top layer hierarchy and the unique bottom layer hierarchy associated with each of the plurality of levels of hierarchies.

65. (Previously Presented) The method of Claim 64, further comprising the steps of:

filtering at least a portion of the plurality of levels of hierarchies and in response the filtered levels of hierarchies disappear from the multi-dimensional user interactive graph and the multi-dimensional graphical user interface displays the filtered levels of hierarchies in a separate filtered window; and

navigating the multi-dimensional axes data hierarchy by drilling into the top layer hierarchies associated with each of the axis dimensions.

66. (Previously Presented) The method of Claim 63, further comprising the steps of:

allowing each of the function values to be graphed over user selectable aggregations of user input data;

filtering at least a portion of the multi-dimensional value hierarchies and in response the filtered value hierarchies disappear from the multi-dimensional user interactive graph and the multi-dimensional graphical user interface displays the filtered value hierarchies in a separate filtered legend window; and

providing for user interaction of complex mathematical combinations of the multidimensional axes data hierarchy.

67. (Previously Presented) The computer graphical user interface system according to Claim 47, wherein the multi-dimensional graphical user interface further comprises:

a first wall graphical user interface grid associated with a mathematical summarization of the plurality of function values associated with each of the top layer hierarchies of the multidimensional axes data hierarchy.

68. (Previously Presented) The computer graphical user interface system according to Claim 67, wherein the multi-dimensional graphical user interface further comprises: a second wall graphical user interface grid associated with the mathematical summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

69. **(Previously Presented)** The software of Claim 55, wherein the multi-dimensional

graphical user interface further comprises:

a first wall graphical user interface grid associated with a mathematical summarization of

the plurality of function values associated with each of the top layer hierarchies of the multi-

dimensional axes data hierarchy.

70. (Previously Presented) The software of Claim 69, wherein the multi-dimensional

graphical user interface further comprises:

a second wall graphical user interface grid associated with the mathematical

summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

71. (Previously Presented) The method of Claim 63, wherein the multi-dimensional

graphical user interface further comprises:

a first wall graphical user interface grid associated with a mathematical summarization of

the plurality of function values associated with each of the top layer hierarchies of the multi-

dimensional axes data hierarchy.

- 72. **(Previously Presented)** The method of Claim 71, wherein the multi-dimensional graphical user interface further comprises:
- a second wall graphical user interface grid associated with the mathematical summarization of the plurality of function values associated with each of the top layer hierarchies of the multi-dimensional axes data hierarchy.